

ATTORNEY DOCKET NO. 97-S-159 (STMI01-97159)  
U.S. SERIAL NO. 09/207,136  
PATENT

**IN THE CLAIMS:**

Please cancel claims 9–10 and 28–30 without prejudice. Please amend the remaining claims as follows, substituting any amended claim(s) for the corresponding pending claim(s):

1. (currently amended) A digital audio/video decoder comprising:

a file reader capable of obtaining any of one or more encoded audio/video data streams from a data source;

a navigator instructing the file reader to obtain a selected encoded audio/video data stream from the data source;

a splitter separating the encoded audio/video data stream obtained by the file reader into one or more component data streams; and

a reprogrammable proxy filter decoding and converting the one or more component data streams into three or more renderable signals including at least one renderable audio signal and at least two renderable video signals.

2. (unchanged/original) The digital audio/video decoder as recited in claim 1, further comprising a user interface connected to the navigator for selecting the encoded audio/video data stream to be obtained.

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1     3. (unchanged/original) The digital audio/video decoder as recited in claim 2, wherein the user.  
2     interface further comprises more than one predefined functions for selecting the encoded  
3     audio/video data stream to be obtained.

1     4. (previously amended) The digital audio/video decoder as recited in claim 3, wherein the  
2     more than one predefined functions comprise:

3             a play function;  
4             a pause function;  
5             a menu function;  
6             a stop function;  
7             a previous function; and  
8             a next function.

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1 5. (currently amended) The digital audio/video decoder as recited in claim 2, wherein the one  
2 or more component data streams further comprises:

3 an audio data stream;

4 a video data stream;

5 a subpicture data stream; and

6 a navigation data stream.

1 6. (currently amended) The digital audio/video decoder as recited in claim 5, wherein the  
2 navigator is coupled to the splitter such that the navigator can use the navigation data stream to  
3 select the encoded audio/video data stream to be obtained according to one or more selection  
4 signals received from the user interface.

1 7. (unchanged/original) The digital audio/video decoder as recited in claim 1, wherein the  
2 reprogrammable proxy filter further comprises:

3 an audio decoder;

4 a video decoder; and

5 a subpicture decoder.

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1 8. (currently amended) The digital audio/video decoder as recited in claim 1, wherein the  
2 reprogrammable proxy filter can decode and convert component data streams that conform to  
3 one or more of an MPEG coding standard, a Dolby AC-3 coding standard, a PCM coding  
4 standard.

Claims 9-10 canceled herein.

1 11. (unchanged/original) The digital audio/video decoder as recited in claim 1, wherein the  
2 reprogrammable proxy filter uses one or more decoding standards to decode and convert the one  
3 or more component data streams.

1 12. (unchanged/original) The digital audio/video decoder as recited in claim 11, wherein the  
2 one or more decoding standards can be updated via software.

1 13. (unchanged/original) The digital audio/video decoder as recited in claim 11, wherein a new  
2 decoding standard can be added to the one or more decoding standards via software.

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1 14. (previously amended) The digital audio/video decoder as recited in claim 1, wherein the  
2 three or more renderable signals comprise:

3 a renderable audio signal;  
4 a renderable video signal; and  
5 a renderable subpicture signal.

1 15. (unchanged/original) The digital audio/video decoder as recited in claim 14, further  
2 comprising a mixer for combining the renderable subpicture signal with the renderable video  
3 signal and producing a combined video signal.

1 16. (unchanged/original) The digital audio/video decoder as recited in claim 1, wherein the  
2 reprogrammable proxy filter further comprises a function for synchronizing the three or more  
3 renderable signals.

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1 17. (unchanged/original) The digital audio/video decoder as recited in claim 1, further  
2 comprising:

3 an audio renderer coupled to the reprogrammable proxy filter and an audio application  
4 program interface, the audio renderer controlling the manipulation and rendering of an audio  
5 signal from the three or more renderable signals; and

6 a video renderer coupled to the reprogrammable proxy filter and a video application  
7 program interface, the video renderer controlling the manipulation and rendering of a video  
8 signal from the three or more renderable signals.

1 18. (unchanged/original) The digital audio/video decoder as recited in claim 17, further  
2 comprising:

3 a sound card;

4 a video graphics adapter; and

5 a video driver for receiving the rendered video signal from the video application program  
6 interface and controlling the video graphics adapter such that a video output signal is produced  
7 from the rendered video signal.

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1     19. (currently amended) The digital audio/video decoder as recited in claim 17, wherein the  
2     data source is a digital video disk (DVD), the digital audio/video decoder further comprising:  
3         a DVD device driver; and  
4         a DVD drive,  
5         wherein the file reader accesses the DVD through the DVD device driver and DVD  
6     drive.

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1     20. (currently amended) A digital audio/video decoder comprising:

2             a file reader capable of obtaining any of one or more encoded audio/video data streams  
3     from a data source;

4             a navigator instructing the file reader to obtain a selected encoded audio/video data  
5     stream from the data source;

6             a user interface connected to the navigator and having one or more predefined functions  
7     for selecting an encoded audio/video data stream to be obtained;

8             a splitter separating the encoded audio/video data stream obtained by the file reader into  
9     an audio data stream, a video data stream, a subpicture data stream and a navigation data stream,  
10    wherein the navigator is coupled to the splitter such that the navigator can use the navigation  
11    data stream to select the encoded audio/video data stream to be obtained;

12            an audio filter decoding and converting the audio data stream into a renderable audio  
13    signal;

14            a video filter decoding and converting the video data stream into a renderable video  
15    signal;

16            a subpicture filter decoding and converting the subpicture data stream into a renderable  
17    subpicture signal;

18            a mixer combining the renderable subpicture signal with the renderable video signal and  
19    producing a combined video signal;



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20 a synchronizing filter synchronizing the renderable audio signal and the combined video  
21 signal;

22 an audio renderer coupled to the audio decoder and an audio application program  
23 interface, the audio renderer controlling the manipulation and rendering of an audio signal from  
24 the renderable audio signal; and

25 a video renderer coupled to the mixer and a video application program interface, the  
26 video renderer controlling the manipulation and rendering of a video signal from the combined  
27 video signal.

Claims 21–24 previously canceled.

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1 25. (currently amended) A digital audio/video system comprising:

2 a DVD drive;

3 a file reader communicably coupled to the DVD drive to obtain any of one or more  
4 encoded audio/video data streams from the DVD drive;

5 a navigator communicably coupled to the file reader and selectively instructing the file  
6 reader to obtain a particular encoded audio/video data stream from the DVD drive;

7 a splitter communicably coupled to the file reader and separating the encoded  
8 audio/video data stream into one or more data streams;

9 a reprogrammable proxy filter communicably coupled to the splitter and decoding and  
10 converting the one or more component data streams into three or more renderable signals  
11 including at least one renderable audio signal and at least two renderable video signals;

12 a mixer communicably coupled to the reprogrammable proxy filter and combining the  
13 at least two renderable video signals and producing a combined video signal;

14 an audio renderer coupled to the reprogrammable proxy filter and an audio application  
15 program interface, the audio renderer controlling the manipulation and rendering of the at least  
16 one renderable audio signal; and

17 a video renderer coupled to the mixer and a video application program interface, the  
18 video renderer controlling the manipulation and rendering of the combined video signal.

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1     26. (currently amended) The digital audio/video system as recited in claim 25, further  
2     comprising a user interface connected to the navigator and selecting the encoded audio/video  
3     data stream to be obtained.

1     27. (currently amended) The digital audio/video system as recited in claim 26, wherein the user  
2     interface further comprises more than one predefined function for selecting the encoded  
3     audio/video data stream to be obtained.

Claims 28–30 canceled herein.

1     31. (unchanged/original) The digital audio/video system as recited in claim 25, wherein the  
2     reprogrammable proxy filter uses one or more decoding standards to decode and convert the one  
3     or more component data streams.

1     32. (unchanged/original) The digital audio/video system as recited in claim 25, wherein the  
2     reprogrammable proxy filter further comprises a function for synchronizing the three or more  
3     renderable signals.

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1     33. (currently amended) The digital audio/video system as recited in claim 25, further  
2     comprising:  
3         a sound card;  
4         an audio driver receiving the rendered audio signal from the audio application program  
5     interface and controlling the sound card such that an audio output signal is produced from the  
6     rendered audio signal;  
7         a video graphics adapter; and  
8         a video driver receiving the rendered video signal from the video application program  
9     interface and controlling the video graphics adapter such that a video output signal is produced  
10    from the rendered video signal.